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Application No. 10/623,433
Attorney Docket No. 1451-0001

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claims 1-69 (Canceled)

Please add the following new claims:

70. (New) An analog electric filter network system for real-time processing of electrical signals in an electric guitar amplifier, said filter network system including:
- an input port receiving an input analog signal derived in real-time from the output of an electric guitar;
 - an output port outputting an output analog signal derived from said input analog signal;
 - a first potentiometer, wherein said first potentiometer is adjustable by a user to set at least in part a first voltage gain magnitude value from said input port to said output port at a first frequency;
 - a second potentiometer, wherein said second potentiometer is adjustable by a user to set at least in part a second voltage gain magnitude value from said input port to said output port at said first frequency;

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a first filter network set, wherein said first filter network set includes at least four filter networks, wherein each of said four filter networks include said first potentiometer;

a second filter network set, wherein said second filter network set includes at least four filter networks, wherein each of said four filter networks include said second potentiometer;

a rotary switch, wherein said rotary switch is adapted to select one filter network from said first filter network set as a first selected network; and

a foot-operated switch, wherein said foot-operated switch is adapted to select an operating filtering network for said analog electric filter network by selecting either said first selected network or one filter network from said second filter network set,

wherein said operating filtering network operates in real-time on said input analog signal to derive at least in part said output analog signal.

71. (New) The filter network system of claim 70 wherein both of said first potentiometer and said second potentiometer are passive devices and have three terminals.

72. (New) The filter network system of claim 70 wherein both of said first potentiometer and said second potentiometer are passive rotary potentiometers and have three terminals.

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73. (New) The filter network system of claim 70 wherein said foot-operated switch contains only a single switch, wherein said single switch has only a single throw.

74. (New) The filter network of claim 70 wherein none of the filter networks included in said first filter network set are included in said second filter network set.

75. (New) The filter network system of claim 70 wherein at least one of the filter networks included in said first filter network set is also included in said second filter network set.

76. (New) An analog electric filter network system for real-time processing of electrical signals in an electric guitar amplifier, said filter network system including:

an input port receiving an input analog signal derived in real-time from the output of an electric guitar;

an output port outputting an output analog signal derived from said input analog signal;

a first potentiometer, wherein said first potentiometer is adjustable by a user to set at least in part a first voltage gain magnitude value from said input port to said output port at a first frequency;

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a second potentiometer, wherein said second potentiometer is adjustable by a user to set at least in part a second voltage gain magnitude value from said input port to said output port at said first frequency;

a first filter network set, wherein said first filter network set includes at least two filter networks, wherein each of said two filter networks include said first potentiometer;

a second filter network set, wherein said second filter network set includes at least two filter networks, wherein each of said two filter networks include said second potentiometer;

wherein at least two of the filter networks included in said first filter network set are also included in said second filter network set;

a rotary switch, wherein said rotary switch is adapted to select one filter network from said first filter network set as a first selected network; and

a foot-operated switch, wherein said foot-operated switch is adapted to select an operating filtering network for said analog electric filter network by selecting either said first selected network or one filter network from said second filter network set,

wherein said operating filtering network operates in real-time on said input analog signal to derive at least in part said output analog signal.

77. (New) The filter network system of claim 76 wherein both of said first potentiometer and said second potentiometer are passive devices and have three terminals.

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78. (New) The filter network system of claim 76 wherein both of said first potentiometer and said second potentiometer are passive rotary potentiometers and have three terminals.

79. (New) The filter network system of claim 76 wherein said foot-operated switch contains a only single switch, wherein said single switch has only a single throw.

80. (New) The filter network system of claim 76 wherein the frequency response of said filter network has a slope of at least 12 decibels/octave in a band of positive frequencies in the neighbourhood of 0 Hz;

81. (New) An analog electric filter network system for real-time processing of electrical signals in an electric guitar amplifier, said filter network system including:

an input port receiving an input analog signal derived in real-time from the output of an electric guitar;

an output port outputting an output analog signal derived from said input analog signal;

a first potentiometer having a first terminal, wherein said first potentiometer is adjustable by a user to set at least in part an operating voltage gain magnitude value from said input port to said output port at a first frequency;

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a second potentiometer having a second terminal, wherein said second potentiometer is adjustable by a user to set at least in part said operating voltage gain magnitude value from said input port to said output port at said first frequency, wherein said first terminal and said second terminal are not short-circuited; a set of at least two networks wherein each network in said set includes an impedance and is adapted to contribute to said operating voltage gain magnitude value when selected; a rotary switch wherein said rotary switch is adapted to select a network from said set of at least two networks as a first selected network; and a foot-operated switch, wherein said foot-operated switch is adapted to select an operating filtering network by selecting either said first selected network or a network from said set of at least two networks, wherein said operating filtering network provides a signal transmission path from said first terminal to said second terminal by providing an electrical connection between said first terminal and said second terminal, wherein said operating filtering network operates in real-time on said input analog signal to derive at least in part said output analog signal.

82. (New) The filter network system of claim 81 wherein both of said first potentiometer and said second potentiometer are passive devices having at least three terminals.

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83. (New) The filter network system of claim 81 wherein both of said first potentiometer and said second potentiometer are passive rotary potentiometers having at least three terminals.

84. (New) The filter network system of claim 81 wherein said foot-operated switch contains only a single switch, wherein said single switch includes only a single throw.

85. (New) The filter network system of claim 81 wherein each of said networks in said set of at least two networks excludes at least one of said first potentiometer and said second potentiometer.

86. (New) The filter network system of claim 81 wherein each of said networks in said set of at least two networks include at most one common resistor.

87. (New) The filter network system of claim 81 wherein each of said networks in said set of at least two networks includes only one common resistor.

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88. (New) The filter network system of claim 87 wherein each of said networks in said set of at least two networks excludes at least one of said first potentiometer and said second potentiometer.

89. (New) The filter network system of claim 81 wherein each network included in said set of at least two networks includes a capacitor and a resistor.